## **WE CLAIM AS OUR INVENTION:**

- 1. An x-ray beam emission window for vacuum tubes and image intensifiers comprising:
  - a radiation-permeable plate formed by a disc of ceramic material; and
  - a window frame supporting said plate and adapted for attachment in a wall opening of an evacuated housing, said window frame being composed of a metal compatible with thermal expansion properties of said ceramic material.
- 2. An x-ray beam emission window as claimed in claim 1 wherein said ceramic material is selected from the group consisting of Al<sub>2</sub>O<sub>3</sub> and SiC, and wherein said window frame is composed of a metal having a composition of 27-30 Wt% Ni, 16-24 wt% Co, other < wt%, and a remainder Fe.
- 3. An x-ray beam emission window as claimed in claim 1 wherein said plate has a metallization thereon and is soldered into said window frame with solder.
- 4. An x-ray beam emission window as claimed in claim 1 wherein said plate is soldered into said window frame with active solder.
- 5. An x-ray beam emission window as claimed in claim 1 comprising an auxiliary frame composed of stainless steel and surrounding said window frame and adapted for welding into said wall opening of said evacuated housing.